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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International			
BCS 02-4003	- On Former Action	Preliminary Examination Report (Form PCT/IPEA/	416)		
International application No. PCT/EP 03/13340	International filing date (day/mod 24.10.2003	hth/year) Priority date (day/month/year) 25.10.2002			
International Patent Classification (IPC) or bo	oth national classification and IPC				
C07C209/74					
Applicant					
BAYER CROPSCIENCE S.A. et al.					
This international preliminary exar Authority and is transmitted to the	nination report has been preparable applicant according to Article	ured by this International Preliminary Examining			
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O This DEDORT southly follows					
2. This REPORT consists of a total of	of 4 sheets, including this cover	r sheet.			
☐ This report is also accompar	nied by ANNEXES, i.e. sheets	of the description, claims and/or drawings which	h have		
been amended and are the last (see Rule 70.16 and Section	basis for this report and/or she n 607 of the Administrative Inst	ets containing rectifications made before this Au ructions under the PCT).	uthority		
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This report contains indications re	lating to the following items:				
I ⊠ Basis of the opinion					
Ⅱ □ Priority					
—		nventive step and industrial applicability			
IV □ Lack of unity of inventi V ☒ Reasoned statement u					
	inder Hule 66.2(a)(ii) with rega ons supporting such statemen	rd to novelty, inventive step or industrial applica	ibility;		
VI 🗆 Certain documents cité	ed .				
VII Certain defects in the i	nternational application				
VIII	n the international application				
Date of submission of the demand	Date of	f completion of this report			
18.05.2004	00.0	0005			
10.00.2004	03.0	.2005			
Name and mailing address of the internation	al Autho	Authorized Officer			
preliminary examining authority: European Patent Office		Georgian	11.8		
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5236	Rom	ano-Götsch, R	0))) }		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13340

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l.	Has	is o	t th	e r	eport	

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-5		as originally filed				
	Clai	ims, Numbers					
	1-10)	as originally filed				
2.	With lang	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23,1(b)).				
		the language of publi	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).				
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequently to this Authority in written form.					
		Information furnished subsequently to this Authority in computer readable form.					
		The statement that the international approximation of the international approximation of the statement of th	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this				
6.	Add	litional observations, i	f necessary:				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13340

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No: Claims

1,2,5,6,8,9

Inventive step (IS)

Yes: Claims

No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

In this communication, reference is made to D1 (WO-A-01/6462301), cited in the search report.

The present application does not meet the criteria of Article 33(2) PCT.

D1 discloses (see p.8, essai no. 3) a process for the preparation of 2,6dichlorotrifluoromethylaniline by reacting the para-trifluoroaniline (pTFA) with Cl2, which are added to the reaction solvent simultaneously (see p.4, lines monochlorobenzene/HF solvent in a Cl₂/pTFA molar ratio of 2.2 at a temperature of 110oC. Thus, D1 seems to anticipate the novelty of claims 1,2,5,6,8,9 on file.

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-10 does not involve an inventive step in the sense of Article 33(3) PCT.

D1 is regarded as being the closest prior art.

The problem to be solved by the present invention is the provision of a process for producing of 2,6-dihalotrifluoromethylaniline.

The solution proposed in the application, is a process which consists of reacting p-TFA with X, (X=halogen) in a polar aprotic solvent, wherein p-TFA and X, are added simultaneously to the solvent, in a X₂/pTFA molar ratio ranging from 1.9 to 2.5 at a temperature of between 100°C and 300°C.

The solution is already known from D1 (see above novelty objection). The general teaching of D1 is directed to preparing 2,6-dichlorotrifluoromethylaniline in the presence of HF diluted in a solvent. The solvent is one which facilitates the chlorination by Cl+ e.g. chlorinated aromatic solvents, e.g. mono-, di-, tri-chlorobenzene (see p.3, lines 15-20). For higher yields, the temperature should be higher than 100°C (see p.3, lines 28-30).

It follows that in view of D1, the claimed matter 1-10 cannot be regarded as inventive.